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Aircraft Control Systems Department General Electric Company P.O. Box 5000, Binghamton, NY 13902

Dial Comm:

March 20, 1990

U.S. Environmental Protection Agency 401 M Street, SE Washington, D.C. 20460

Attn: CAIR Reporting Office

The attached CAIR reports is being submitted in accordance with 40 CFR Part 704 for the General Electric Facility located in Johnson City, NY.

If you have any questions or comments please contact David Minerley, Safety and Environmental Specialist at 607-770-2000.

Thank You:

David M. Municy

David M. Minerley, Safety and Environmental Specialist



Form Approved
OMB No. 2010-0019
Approval Expires 12-31

CONTAINS NO CBI

91 APR -9 AM 9:30

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

For Agency Use Only:

Date of Receipt: _

Document

Control Number:

Docket Number:

EPA Form 7710-52

90-91000008

0010349475

		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	A ?	GENERAL REPORTING INFORMATION
1.01		is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	20	mpleted in response to the <u>Federal Register</u> Notice of $[\frac{1}{2}] [\frac{2}{2}] [\frac{2}{8}] [\frac{8}{8}]$
$[_]$	а.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No
	ь.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	с.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of th substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_[_]-[_
		Name of chemical substance
.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
BI		ufacturer
	Imp	orter
(Proc	cessor Reporting Status Is Processor
	X/P	manufacturer reporting for customer who is a processor
	a, r	processor reporting for customer who is a processor

1.03 C <u>BI</u>	in the above-listed Federal Register Notice?
	Yes
	No [_] Go to question 1.
1.94 <u>CBI</u>	a. Do you manufacture. Export, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice Circle the appropriate response.
(_)	res No No
	b. Check the appropriate box below:
	[] You have chosen to notify your customers of their reporting obligations
	Provide the trade name(s) (NA)
	You have chosen to report for your customers
	You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.05 CBI	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.
[_]	Trade name Eccofoam FPH, Stepanfoam BH-614-T
`'	Is the trade name product a mixture? Circle the appropriate response.
(Yes
	No
1.06	Certification The person who is responsible for the completion of this form must sign the certification statement below:
CBI	"I hereby certify that, to the best of my knowledge and belief, all information
''	David Minerley David Muly 12/19/90 NAME SIGNATURE DATE SIGNED
	NAME / SIGNATURE DATE SIGNED
•	Safety & Environ. Spec. (607) 770 - 2696 TITLE TELEPHONE NO.
[] M	fark (Y) this how if you attach a continuation the
	fark (X) this box if you attach a continuation sheet.

1.07 <u>CBI</u> []	vith the required information vithin the past 3 years, and for the time period specificare required to complete second required but not previous submissions along with your submissions.		ted substance and complete tion below. You ny information previous
	information which I have not	he best of my knowledge and belief, al included in this CATR Reporting Form rs and is current, accurate, and compl ."	has been submitte
NA	NAME	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u> ()	certify that the following st those confidentiality claims "My company has taken measure and it will continue to take been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial information is not publicly a	have asserted any CBI claims in this retatements truthfully and accurately ap which you have asserted. The est oprotect the confidentiality of the these measures; the information is not be by other persons (other than govern than discovery based on a showing of proceeding) without my company's constavailable elsewhere; and disclosure of to my company's competitive position.	he information, t, and has not ment bodies) by special need in ent; the
	NAME	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	
<u> </u>	ark (X) this box if you attac		

1.11 Parent Company Identification					
CBI Name [G]E N E R A L E L E C	III	<u> </u>			- ₁ - ₁
[Address [] O O IMA I IN I IS I T		${1}{1}$			
			111	_1_1_1	
	[<u>W]</u>] State			<u> </u>	
Dun & Bradstreet Number	•••••				
1.12 Technical Contact					
CBI Name $[\overline{D}]\overline{A}]\overline{V}]\overline{I}\overline{D}]\underline{I}\overline{M}\overline{I}\overline{N}\overline{E}\overline{R}\overline{I}$ $[\underline{\underline{I}}]$ Title $[\underline{\underline{S}}]\overline{A}]\overline{F}\overline{E}\overline{I}\overline{I}\overline{V}]\underline{I}\overline{I}\overline{I}\overline{I}\overline{I}\overline{N}\overline{V}$ Address $[\underline{\overline{G}}]\overline{G}\overline{D}\underline{I}\overline{M}\overline{A}\overline{I}\overline{I}\overline{M}\overline{I}\overline{N}\overline{I}\overline{N}\overline{I}\overline{N}\overline{I}$	<u> 712101</u>	<u> </u>	<u> </u>	<u></u>	
[<u>J 0 # N 3 0 N _ C J </u>]		- ₁ - ₁ -			
	[<u>N</u>] <u>V</u>]	[7]	<u>3</u> 1 <u>7</u> 1 <u>9</u> 1	<u>⊘</u>]{ <u></u>] Zip	_1_1
Telephone Number	·····[<u>Z</u>				
.13 This reporting year is from	(<u>で</u>] <u>ブ</u>] Mo.	(<u>§)</u> 8) Year	to [<u>ア</u>]ヌ] Mo.	<u> </u>

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
CBI	Name of Seller []]]]]]]]]]]]]]]]]]
(1	
	[_]_] [_]_]_]_]_]-[_;_]_ State
	Employer ID Number
	Date of Sale
	Contact Person []]]]]]]]]]]]]]]]]]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer []]]]]]]]]]]]]]]]]]
1	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
(NA (=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1
	[_]_] [_]_][_]_]_ State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]
	[elephone Number
	rk (X) this box if you attach a continuation sheet.

Classification	Quantit
Manufactured	· · · · · <u> </u>
Imported	<u>/</u>
Processed (include quantity repackaged)	<u>2</u> (
Of that quantity manufactured or imported, report that quantity:	
In storage at the beginning of the reporting year	····/
For on-site use or processing	
For direct commercial distribution (including export)	
In storage at the end of the reporting year	
Of that quantity processed, report that quantity:	
In storage at the beginning of the reporting year	<u>("</u> (
Processed as a reactant (chemical producer)	
Processed as a formulation component (mixture producer)	
Processed as an article component (article producer)	<u>20</u>
Repackaged (including export)	• • • •
In storage at the end of the reporting year	("(

PART C IDENTIFICATION OF MIXTURES

1.17 Mixture -- If the listed substance on which you are required to report is a mixture or a component of a mixture, provide the following information for each component chemical. (If the mixture composition is variable, report an average percentage of each component chemical for all formulations.)

CBI

[_]	Component Name	Supplier Name	Average % Composition by Weight (specify precision. e.g., 45% ± 0.5%)
Stepanfoam	(2,4-Toluene Diisocyanate	Stepan Co.	74%
BH-614-T	2,6 - Toluene Dissocyanate	Stepan Co.	18%
	("U.K.")	Stepan Co.	<u>8%</u>
Eccofoam FPH	Toluene Diisocyanate	Emerson - Cummings	25-35%
	(TDI Based Prepolymer	Emerson - Cummings	65-75%
			Total 100%

^[] Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility manufactured, imported or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
CBI	
[_]	Year ending
	Quantity manufactured
	Quantity imported
	Quantity processed ≈ 47 k
	Year ending $[1/2]$ $[8/6]$ Mo. Year
	Quantity manufactured
	Quantity imported
	Quantity processed ≈ 33 kg
	Year ending
	Quantity manufactured KA
	Quantity imported k
	Quantity processed
2.05 CBI	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
	(NA)
'-'	Continuous process
	Semicontinuous process
	Batch process
_1	Mark (X) this box if you attach a continuation sheet.

2.06 <u>CBI</u>	Specify the manner in appropriate process t	which you processed ypes.	the listed substance.	Circle all			
[_]	Continuous process						
	Semicontinuous process	s					
	(Batch process)						
2.07 CBI	State your facility's substance. (If you arquestion.)	name-plate capacity is a batch manufacture	or manufacturing or per or batch processor.	rocessing the liste do not answer this			
[_]	Manufacturing capacity	• • • • • • • • • • • • • • • • • • • •		(NA) kg			
	Processing capacity .	· · · · · · · · · · · · · · · · · · ·		(" <i>U.K.</i> ") kg			
2.08 CBI	If you intend to incre manufactured, imported year, estimate the inc volume.						
_1		Manufacturing Quantity (kg)	ImportingQuantity (kg)	ProcessingQuantity (kg)			
	Amount of increase	NA)	(NA)	(NA)			
	Amount of decrease	NA)	(NA)	("U.K.")			
_] M	fark (X) this box if you	u attach a continuati	on sheet.				

2.09	substance durin	largest volume manufacturing or processing process, specify the number of days you manufactured ago the reporting year. Also specify the averages type was operated. (If only one or two operated)	or processed	the list
<u> </u>				
[_]			Days/Year	Average Hours Da
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	(NA)	
		Processed	~250	8
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	(NA)	
		Processed	NA	
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	NA	
		Processed	NA	
2.10 CBI	State the maximusubstance that we chemical.	am daily inventory and average monthly inventor as stored on-site during the reporting year in	ry of the lis	t ed a bulk
	Maximum daily in	ventory	("U.K	(11)
		inventory	,	· · · · · · · · · · · · · · · · · · ·
,				
				
_1	Mark (X) this bo	x if you attach a continuation sheet.		

2,6 - Toluene Dissocyanate	II。 	("U.K,")	Raw Mat
	_		
	ving codes to designate by	ving codes to designate byproduct, copro	ving codes to designate byproduct, coproduct, or impurity

BI 	imported, or processed the quantity of listed total volume of listed quantity of listed substituted under column b the instructions for furnishments	substance you use substance used dur tance used captive and the types of (for each product type ing the reporting yea ly on-site as a perce end-users for each pr	e as a percentage of ir. Also list the
	Product Types	b. % of Quantity Manufactured, Imported, or Processed	c. % of Quantity Used Captively On-Site	d.' Type of End-Use:
		100%		<u>H</u>
	<pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator/ Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant/: G = Cleanser/Detergent/: H = Lubricant/Friction: agent I = Surfactant/Emulsific J = Flame retardant K = Coating/Binder/Adhe:</pre>	r/Scavenger/ Sequestrant Degreaser modifier/Antiwear er sive and additives	<pre>U = Functional flui V = Metal alloy and W = Rheological mod X = Other (specify)</pre>	orant/Ink and addit: prographic chemical on/Plating chemicals dditives cals and additives r chemicals ol chemicals ds and additives additives ifier
	Use the following codes I = Industrial CM = Commercial	ČŜ = Cons		-overnment

BI J	Expected Product Types Identify all pro- import, or process using the listed substa- corporate fiscal year. For each use, spec- import, or process for each use as a perce- substance used during the reporting year. used captively on-site as a percentage of types of end-users for each product type. explanation and an example.)			at any time after the quantity you ge of the total vo so list the quant: value listed unde	expect to manufactus olume of listed ity of listed substant er column by and the
	a.	5.		2	i.
	Product Types /	% of Quantity Manufactured, Imported, or Processed		% of Quantity Used Captively On-Site	Type of End-Users
		700%	_	070	<u> </u>
			_		
			_		
			_ 		
	Use the following codes to A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Acc Sensitizer D = Inhibitor/Stabilizer/S Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sec G = Cleanser/Detergent/Deg H = Lubricant/Friction mod agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesiv Use the following codes to	celerator/ Scavenger/ Questrant Greaser Lifier/Antiwear	L = M = N = N = N = N = N = N = N = N = N	Moldable/Castabl Plasticizer Dye/Pigment/Colo Photographic/Rep and additives Electrodepositio Fuel and fuel ad Explosive chemic Fragrance/Flavor Pollution contro Functional fluid Metal alloy and Rheological modi Other (specify)	rant/Ink and additive rographic chemicals n/Plating chemicals als and additives chemicals l chemicals s and additives additives additives
	<pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Acc Sensitizer D = Inhibitor/Stabilizer/S Antioxidant E = Analytical reagent F = Chelator/Coagulant/Sec G = Cleanser/Detergent/Deg H = Lubricant/Friction mod agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesiv</pre> Use the following codes to	celerator/ Scavenger/ questrant greaser lifier/Antiwear re and additives designate the CS = Cons	L = N = P = P = P = P = P = P = P = P = P	Moldable/Castabl Plasticizer Dye/Pigment/Colo Photographic/Rep and additives Electrodepositio Fuel and fuel ad Explosive chemic Fragrance/Flavor Pollution contro Functional fluid Metal alloy and Rheological modi Other (specify) of end-users:	n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives fier
	<pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Acc Sensitizer D = Inhibitor/Stabilizer/S Antioxidant E = Analytical reagent F = Chelator/Coagulant/Seq G = Cleanser/Detergent/Deg H = Lubricant/Friction mod agent I = Surfactant/Emulsifier J = Flame retardant K = Coating/Binder/Adhesiv</pre> Use the following codes to	celerator/ Scavenger/ questrant greaser lifier/Antiwear re and additives designate the CS = Cons	L = N = P = P = P = P = P = P = P = P = P	Moldable/Castabl Plasticizer Dye/Pigment/Colo Photographic/Rep and additives Electrodepositio Fuel and fuel ad Explosive chemic Fragrance/Flavor Pollution contro Functional fluid Metal alloy and Rheological modi Other (specify)	rant/Ink and additive rographic chemicals n/Plating chemicals als and additives chemicals chemicals and additives and additives additives fier

	b.	c. Average %	đ.
Product Type ¹	Final Product's Physical Form	Composition of Listed Substance in Final Product	Type of End-User
	(NA)		
	des to designate prod		
A = Solvent B = Synthetic reacta C = Catalyst/Initiat	nt	<pre>L = Moldable/Castable/ M = Plasticizer N = Dye/Pigment/Colora</pre>	nt/Ink and add
Sensitizer D = Inhibitor/Stabil Antioxidant	_	<pre>0 = Photographic/Repro and additives P = Electrodeposition/</pre>	graphic chemia
<pre>E = Analytical reage F = Chelator/Coagula G = Cleanser/Deterge.</pre>	nt/Sequestrant nt/Degreaser	Q = Fuel and fuel addi R = Explosive chemical S = Fragrance/Flavor c	tives s and additiv
<pre>H = Lubricant/Fricti agent I = Surfactant/Emuls</pre>	on modifier/Antiwear	T = Pollution control U = Functional fluids V = Metal alloy and add	chemicals and additives
J = Flame retardant	dhesive and additives	W = Rheological modifie	er
Use the following cod		final product's physica	l form:
	F2 = Crys F3 = Gran F4 = Othe		
A = G as B = Liquid			
A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry	G = Gel H = Othe	r (specify)	
A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder	H = Othe		
A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry Fl = Powder	H = 0 the less to designate the $CS = Const$	type of end-users:	

2.15 CBI		le all applicable modes of transportation used to deliver bulk shipments of ed substance to off-site customers.	f the
_1	(A/x/s/x/x	Ø	•••
	Railo	e, Vessel	
	Barge	., Vessel	
	Pipel	ine	
	Plane	·	.
	Other	: (specify)	• • •
2.16 CBI	or pr of en	omer Use Estimate the quantity of the listed substance used by your custepared by your customers during the reporting year for use under each cated use listed (i-iv). Gory of End Use	tome: egor;
	i.	Industrial Products	
	••	Chemical or mixture	kg
		Article	
	ii.	Commercial Products	_ `
		Chemical or mixture	kg
		Article	kg
	iii.	Consumer Products	
		Chemical or mixture	kg
		Article	kg
	iv.	<u>Other</u>	
		Distribution (excluding export)	kg
		Export	kg
		Quantity of substance consumed as reactant	kg
		Unknown customer uses	k
		district Controller Coco	

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

<u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.		
 ·	Source of Supply	Quantity (kg)	Average Pri (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.		
	The listed substance was purchased directly from a manufacturer or importer.		_
	The listed substance was purchased from a distributor or repackager.	20.3	("U.K.")
	The listed substance was purchased from a mixture producer.		
	Circle all applicable modes of transportation used to your facility. Truck Railcar Barge, Vessel Pipeline	•••••••••••••••••••••••••••••••••••••••	

а.	Circle all applicable containers used to transport the listed substance to facility.
	Bags
	Boxes
	Free standing tank cylinders
	Tank rail cars
	Hopper cars
	Tank trucks
	Hopper trucks
	Drums
	Pipeline
	Other (specify) Metal Cans
	cars, or tank trucks, state the pressure of the tanks. Tank cylinders
	Tank cylinders Tank rail cars

3.04	ART B RAW MATERIAL IN THE FORM OF A MIXTURE						
CBI	If you obtain the listed substance in the form of a mixture, list the trade name(s of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of the average percent composition by weight of the listed substance in the mixture, and amount of mixture processed during the reporting year.						
(<u> </u>	Trade Name	Supplier or Manufacturer	Average Composition by Weight (specify ± % precision)	Amount Processed (kg.yr)			
	Eccofoam FPH	Emerson - Cummings		10			
	Stepanfoam BH-614-T		74%	22.7			

the percent composition,	by weight, of the listed sub	
	Quantity Used (kg/yr)	% Composition Weight of Listed stance in Raw Mate (specify ± % preci
Class I chemical	/0	25-35%
	22.7	74%
Class II chemical		
		
Polymer		
		

	SECT	ION 4 PHYSICAL/CHEMIC	AL PROPERTIES	
Gene	ral Instructions:			
If y 4 th	ou are reporting on a mixt at are inappropriate to mi	ure as defined in the xtures by stating "NA	glossary, reply to que mixture."	stions in Secti
neti	you are reporting on a mixture as defined in the glossary, reply to questions in Sectional that are inappropriate to mixtures by stating "NA mixture." r questions 4.06-4.15, if you possess any hazard varning statement, label, MSDS, or other time that addresses the information requested, you may submit a copy or reasonable csimile in lieu of answering those questions which it addresses. RT A PHYSICAL/CHEMICAL DATA SUMMARY Of Specify the percent purity for the three major technical grade(s) of the listed substance as it is manufactured, imported, or processed. Measure the purity of the substance in the final product form for manufacturing activities, at the time you import the substance, or at the point you begin to process the substance. ("NA - Mixture") Manufacture Import Process			
PART	General Instructions: If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4. Chain are inappropriate to mixtures by stating "NA mixture." For questions 4.06-4.15, if you possess any hazard varning statement, label, MSDS, or other contents addresses the information requested, you may submit a copy or reasonable facisimile in lieu of answering those questions which it addresses. PART A PHYSICAL/CHEMICAL DATA SUMMARY O1 Specify the percent purity for the three major technical grade(s) of the listed substance as it is manufactured, imported, or processed. Measure the purity of the substance in the final product form for manufacturing activities, at the time you import the substance, or at the point you begin to process the substance. O2 Mixture Manufacture Import Process Technical grade *1			
CBI	substance as it is manuf substance in the final p import the substance, or	actured, imported, or product form for manufactures.	processed. Measure the cturing activities, at	e purity of the
`-'	("NA-Mixture")	Manufacture	Import	Process
	Technical grade #1	% purity	% purity	% puri
	Technical grade #2	% purity	% purity	% puri
	Technical grade #3	% purity	% purity	% puri
,	¹ Major = Greatest quanti	ty of listed substance	manufactured, importe	d or processed.
.02	substance, and for every an MSDS that you develope version. Indicate whether	formulation containing ed and an MSDS develope	g the listed substance ed by a different sour	. If you posse ce. submit your
(Yes)	•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	No	•	• • • • • • • • • • • • • • • • • • • •	
	Indicate whether the MSDS	vas developed by your	c company or by a diff	erent source.
	Your company	•••••		
(Another source	•••••		•••••

GENERAL ELECTRIC COMPANY
600 MAIN STREET
JOHNSON CITY NY 13790

NF 00956 01 MATERIAL SAFETY DATA SHEET DATE: 03/02/90 CUST # 39795-701 P.O.# 34929 PAGE: 1 PRODUCT NUMBER: 188478 PRODUCT NAME: STEPANFOAM BH-614-T * STEPAN COMPANY **EMERGENCY INFORMATION** NORTHFIELD, IL. 60093 MEDICAL: 1-800-228-5635 (708) 446-7500 CHEMTREC: 1-800-424-9300 ******************************** SECTION I: GENERAL INFORMATION PRODUCT NUMBER: 188478 PRODUCT NAME: STEPANFOAM BH-614-T PRODUCT CLASS: TOLUENE DIISOCYANATE. PRECAUTIONS: 'POISON. REFER TO BILL OF LADING OR CONTAINER LABEL FOR DOT OR OTHER TRANSPORTATION HAZARD CLASSIFICATION, IF ANY. ***************************** * SECTION II: HAZARDOUS INGREDIENTS ******************************** INGREDIENT (CAS #) ACGIH TLV OSHA PEL OTHER (PPM)

(CONTINUED)

O.K MAR 0 8 1990

NF 00956 01 MATERIAL SAFETY DATA SHEET PAGE: DATE: 03/02/90 CUST # 39795-701 P.O.# 34929 PRODUCT NUMBER: 188478 PRODUCT NAME: STEPANFOAM BH-614-T TOLUENE-2.4-DIISOCYANATE (TDI) (C) SARA 313 0.005 0.005 (584-84-9) TOLUENE-2,6-DIISOCYANATE (TDI) (C) 0.005 0.005 **SARA 313** (91-08-7)18% NE = NOT ESTABLISHED. NL = NOT LISTED. (C) = IDENTIFIED AS A CARCINGGEN BY OSHA, IARC, OR NTP. 4 SECTION III: PHYSICAL/CHEMICAL DATA BOILING POINT: OVER 200 DEG F. (93 DEG C.). % VOLATILE BY WEIGHT: EVAPORATION RATE: ESTIMATED SLOWER THAN ETHYL ETHER. VAPOR DENSITY: ESTIMATED HEAVIER THAN AIR. WEIGHT PER GALLON: 10.0 LBS. ********************************** SECTION IV: FIRE AND EXPLOSION DATA FLASH POINT (SETA FLASH CLOSED CUP): OVER 200 DEG F. (93 DEG C.). **EXPLOSIVE LIMITS:** LOWER: 18 EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, FOAM, OR WATER FOG. CLASS BC, ABC FIRE EXTINGUISHER. SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHT-ING FIRES INVOLVING CHEMICALS. UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION V: REACTIVITY DATA

(CONTINUED)

NF 00956 01

MATERIAL SAFETY DATA SHEET

DATE: 03/02/90 CUST # 39795-701 P.O.# 34929 PAGE:

PRODUCT NUMBER: 188478 PRODUCT NAME: STEPANFOAM BH-614-T

INCOMPATABILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AGENTS

WATER, ALCOHOLS, AMINES, ALKALIES, METAL COMPOUNDS (CATALYSTS).
HAZARDOUS DECOMPOSITION PRODUCTS:

CYANIDES AND AMMONIA MAY BE FORMED.

◆◆◆◆◆◆◆
SECTION VI: HEALTH HAZARD DATA

◆
◆

◆
◆

EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES

EYES: CONTACT WITH EYES IS PAINFUL AND IRRITATING.
FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST

15 MINUTES.

SKIN: PROLONGED OR REPEATED CONTACT WITH SKIN CAUSES IRRITATION.

WASH OFF SKIN WITH WATER. REMOVE CONTAMINATED CLOTHING AND CLEAN BEFORE REUSE.

INHALATION: MAY CAUSE RESPIRATORY SENSITIZATION AND IRRITATE SKIN, EYES AND RESPIRATORY TRACT WITH POSSIBLE PERMANENT DECREASE IN LUNG FUNCTION. MAY AGGRAVATE ASTHMA OR OTHER PRE-EXISTING RESPIRATORY CONDITIONS.

INGESTION: IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY.

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:
CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE TO THIS PRODUCT INCLUDE ASTHMA, OTHER RESPIRATORY
DISORDERS (BRONCHITIS, EMPHYSEMA, BRONCHIAL HYPERREACTIVITY),
SKIN ALLERGIES, ECZEMA. UNNECESSARY EXPOSURE TO THIS PRODUCT
OR ANY CHEMICAL SHOULD BE AVOIDED.

IF ANY SYMPTOMS PERSIST, CONSULT A PHYSICIAN.

IN A NATIONAL TOXICOLOGY PROGRAM (NTP) STUDY, TDI WAS CARCINO-GENIC WHEN GIVEN ORALLY TO RATS AND MICE AT MAXIMUM TOLERATED DOSES. TDI WAS NOT CARCINOGENIC TO RATS IN A TWO-YEAR INHALATION STUDY.

SEE SECTION II FOR HAZARDOUS INGREDIENTS PRESENT IN THIS PRODUCT AND THEIR CORRESPONDING THRESHOLD LIMIT VALUES.

FOR ADDITIONAL MEDICAL INFORMATION, CALL 1-800-228-5635

CONTAIN ALL SPILLS AND LEAKS TO PREVENT DISCHARGE INTO THE ENVIRONMENT.

VENTILATE AREA.

(CONTINUED)

NF 00956 01

MATERIAL SAFETY DATA SHEET

DATE: 03/02/90

CUST # 39795-701

P.O.# 34929

PAGE:

PRODUCT NUMBER: 188478

PRODUCT NAME: STEPANFOAM BH-614-T

SMALL SPILLS: SOAK UP WITH ABSORBANT, SHOVEL INTO WASTE CONTAINER, FLUSH AREA WITH WATER.

LARGE SPILLS: RECOVER LIQUID FOR REPROCESSING OR DISPOSAL.

WASTE DISPOSAL: RECOVER MATERIAL OR DISPOSE (INCINERATION IS
PREFERRED) IN ACCORDANCE WITH ALL APPLICABLE FEDERAL,
STATE, AND LOCAL REGULATIONS. MATERIAL COLLECTED WITH
ABSORBANT MAY BE DISPOSED IN A PERMITTED LANDFILL IN
ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
EMPTY CONTAINER MAY RETAIN VAPOR OR PRODUCT RESIDUE.
OBSERVE ALL LABELED SAFEGUARDS UNTIL CONTAINER IS

CLEANED, RECONDITIONED, OR DESTROYED.

EYE PROTECTION: WEAR FULL FACE SHIELD OR GOGGLES WHEN HANDLING. PROTECTIVE GLOVES: USE IMPERVIOUS GLOVES. RESPIRATORY PROTECTION:

IF VAPORS ARE PRESENT, USE NIOSH OR MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS, AIR-LINE RESPIRATOR, OR A SELF-CONTAINED BREATHING APPARATUS.

VENTILATION:

USE VENTILATION ADEQUATE TO KEEP HAZARDOUS INGREDIENTS BELOW THEIR TLV (SEE SECTION II).

OTHER PROTECTIVE EQUIPMENT:

WEAR PROTECTIVE CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT.

EYE WASH STATION AND SAFETY SHOWER SHOULD BE NEAR WORK AREA.

HANDLING AND STORAGE:

AVOID OVERHEATING OR FREEZING.

AVOID OPEN FIRE OR FLAME.

OTHER PRECAUTIONS:

SPILLED MATERIAL IS SLIPPERY. WASH THOROUGHLY AFTER HANDLING. IF INGESTED, CALL A PHYSICIAN.

DO NOT POUR INTO DRAINS, AS SOLIDS THAT FORM WILL PLUG SEWERS.
1% AMMONIA MAY BE USED TO NEUTRALIZE SPILLS.

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NF 00956 01

MATERIAL SAFETY DATA SHEET

DATE: 03/02/90 CUST # 39795-701 PRODUCT NUMBER: 188478 PRODUCT

L P•0•# 34929

PRODUCT NAME: STEPANFOAM BH-614-T

PAGE:

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(R) REGISTERED TRADEMARK OR APPLICATION PENDING.

SAFETY DA

TDI UZZZ

: MSDS=330005

EMERSON AND CUMING, LINE. 4 A GRACE:CO. TT DRAGON COURT, NOBURN, MA 💥 O1888

EHERGENCY/SAFETY INFORMATION: (617)935-4850 DX:(517)938-8630 : ADDITIONAL MSDS: (617)823-3300 a

MSDS PREPARED BY: TOAUTO MARS DATE PREPARED: 01/30/89 SUPERCEDES: 409/11/34 4 DOCUMENT 2: 230003

-SECTION I - IDENTIFICATION

PRODUCT:(TRADE) NAME: ECCOFOAM.FPH

付款的 化三氯化物 化双带效

GENERAL CHEMICAL DESCRIPTION: GISC: YANATE PREPOLYMER

--- SECTION II-INGREDIENTS

HAXIHUH EXPOSURE LIMITS

PERCENT

(8 HOUR TIME-MEIGHTED TAVERAGE):

EY HEIGHT

OSHA PEL : TACGIH TLV

TOLUENE-DIISOCYANATE-BASED

65-751

NOT ESTABLISHED

Something the

PREPOLYMER

COMPONENTS

TOLUENE DIESOCYANATE(A)

25-35%

0.02PPM -

0.005PP# 44

(:AS#: 584-84-9);

SEE "HEALTH HAZARD DATA".

(4) THIS MATERIAL IS REGULATED BY THE SARA SECTION 313 AMENDMENTS TO RORA.

----SECTION TII-PHYSICAL DATA

BOILING POINT (^F): <> 200

VAPOR PRESSURE AT 25°C: C 1 MM HG

VOLATILES (& BY WEIGHT): WEGLIGIBLE

APPEARANCE AND COOR: RED LIQUID

SPECIFIC TRAVITY (HATER=1): 1.30

SOLUBILITY IN WATER: REACTS WITH WATER!

VAPOR DENSITY: HEAVIER THAN AIR ..

PRINTED _ 05/30/89 :

PAGE 1 DF 4

SAFETY DATA

ECCOFOAN FPH

FLASH POINT (OF): > 270" (PENSKY-HARTENS CLOSED CUP: ASTH D93)

FLAMMABLE LIMITS: NOT ESTABLISHED

Secretary and the second

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM.

The same track to be the same of

UNUSUAL FIRE OR EXPLOSION HAZAROS: TOXIC VAPORS MAY BE EVOLVED UPON EXPOSURE TO WEAT OR OPEN FLAME.

DLEW LTHORE

SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING

APPARATUS.

-----SECTION V-REACTIVITY DATA-

PRODUCT STABILITY: PRODUCT IS STABLE; HAZARDOUS POLYMERIZATION WILL NOT DECUR.

INCOMPATIBILITIES: STRONG OXIDIZERS, HATER, ALCOHOLS, POHDERED METALS OR METAL OXIDES OF

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIDXIDE, DXIDES OF NITROGEN, TRACES OF CYANIDES.

CONDITIONS: TO AVOID: STORAGE IN OPEN CONTAINERS, EXPOSURE TO HEAT AND OR CHAFTAME, UNCONTROLLED MIXING HITH (OR EXPOSURE TO) INCOMPATIBLE SUBSTANCES (ABOVE):

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PA GE 2 OF 4.

SAFETY DATA

ECCOFOAN FPH .

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-SECTION VI-SPILL OR LEAK PROCEDURES-

NOTE: PROTECTIVE GLOVES, CLOTHING, RESPIRATORY PROTECTION AND CHEMICAL SPLASH GOGSLES MUST BE NORN DURING ENTIRE CLEAN-UP PROCEDURE.

FOR SHALL SPILLS: TURN ON VENTILATION EQUIPMENT TO EVACUATE VAPORS FROM THE AREA. MIPE
UP, OR ABSORB WITH VERMICULITE OR OTHER ABSORBENT MATERIAL. S
COLLECT WASTE IN SEALED CONTAINERS.

SCRUB AREA WITH SOAPY WATER AND RINSE. PREVENTS RINSES FROM ENTERING DRAINS OR OTHER WATERWAYS.

SPILLED MATERIAL AND MATER RINSES SHOULD BE DIPOSED OF AS CHEMICAL WASTE IN ACCORDANCE WITH ALL CURRENT FEDERAL, STATE, AND LOCAL REGULATIONS.

FOR LARGE (SPILLS: TURN ON EVENTILATION EQUIPMENT TO EVACUATE CVAPORS FROM THE AREA: A NON-ESSENTIAL PERSONNEL SHOULD BE EVACUATED FROM IMMEDIATE AREA.

DIKE AREA TO CONTAIN SPILLED MATERIAL AND TO PREVENT RUNOFF INTO DRAINS, SEVERS, AND OTHER WATERWAYS.

SHOVEL OR PUMP TO DRUM OR SALVAGE TANK.

A STATE OF THE STA

ABSORB RESIDUAL MATERIAL WITH SAND, VERMICULITE, OR OTHER ABSORBENT MATERIAL.

SCRAPE OR SHOVEL ABSORBED HASTE AND ABSORBENT INTO CONTAINERS.

THOROUGHLY SCRUB RESIDUAL MATERIAL OF AQUEOUS 18 AMMONIA AND 5% ISOPROPANOL.

COLLECT HATER RINSES IN D.O.T.-APPROVED CONTAINERS, SEPARATE FROM HATERIAL ABSORBED HITH VERMICULITE.

POLYHERIZED MATERIAL MAY BE SCRAPED UP AND DISPOSED OF SEPERATELY.

SPILLED MATERIAL AND MATER RINSES SHOULD BE DIPOSED OF AS CHEMICAL MASTE IN ACCORDANCE WITH ALL CURRENT FEDERAL, STATE, AND LOCAL REGULATIONS.

-SECTION VII-SPECIAL PRECAUTIONS-

PERSONAL PROTECTION: AVOID SKIN: AND EYE CONTACT. HEAR GLOVES AND PROTECTIVE CLOTHING TO PREVENT EXPOSURE. AVOID BREATHING VAPORS. USE DNLY HITH ADEQUATE VENTILATION.

STORAGE: STORE IN COOL, DRY PLACE; KEEP REMOVED FROM ANY HEAT OR OPEN FLAME.

- DO NOT EXPOSE TO HOISTURE; HOISTURE WILL MAKE PRODUCT UNUSABLE.
- KEEP CONTAINER CLOSED WHEN NOT IN USE.

VENTILATION REQUIREMENTS: FLEXIBLE DUCTHORK: SHOULD EXTEND TO AREAS OF HIGH CONCENTRATION TO PREVENT LOCAL BUXLDUP: OF VAPOR. NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED IN THE ABSENCE OF MECHANICAL VENTILATION WHEN WORKING WITH LARGE QUANTITIES OF MATERIAL.

FLAMMABILITY/ EXPLOSION PRECAUTIONS: KEEP AWAY FROM INTENSE HEAT, OPEN FLAMES 198

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PAGE 3 OF 4

SAFETY DATA

white the same of the same of

ECCOFOAN FPH

-- SECTION VIII-HEALTH HAZARD DATA-

CAUTION: "CONTAINS TOLUENE DIISOCYANATE

的复数形式 化水杨烷基基 医艾克特 淋漓的人名

EFFECTS OF ACUTE OVEREXPOSURE

EMERGENCY FIRST AID PROCEDURES

: INHALATION.

AND NAUSEA. PRODUCE IRRITATION AND NAUSEA. PROLONGED

BREATHING HAY CAUSE ASTHMA.

A PULHONARY SENSITIZER

EYE CONTACT

SEVERE IRRITATION UPON DIRECT

SKIN CONTACT

IRRITATION UPON DIRECT
CONTACT.
PROLUNGED EXPOSURE HAY RESULT
IN SKIN SENSITIZATION

INGESTION

HARMFUL IF SHALLOHED

REMOVE TO FREST AIR. GIVE ARTIFICIAL RESPIRATION IF NOTE BREATHING. GIVE OXYGEN IF BREATHING DIFFICULT. GET THE DIATE MEDICAL AT TENTION.

IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES; GET MEDICAL TAIL ATTENTION

REHOVE CONTAMINATED CLOTHING (S)

DILUTE WITH LARGE QUANTITIES WATER; INDUCE WOMITING TO ONLY IF VICTOR IS CONSCIOUS AND REERI. SET IMMEDIATE MEDICAL ATTEMPTON.

EFFECTS OF CHRONIC OVEREXPOSURE: DVEREXPOSURE TO TOLUENE DISOCYANATE HAS RESULTED IN DECREASED PULMONARY FUNCTION AND FIBROSIS IN MORKERS. TOI IS INCLUDED ON THE MYP LIST OF SUBSTANCES THAT ARE REASONABLY ANTICIPATED TO BE CARRINGGERIC.

GET MEDICAL ATTENTION IF SYMPTOMS PERSIST

4.03	Submit a copy or reasonable facs: that is provided to your customer formulation containing the listed been submitted by circling the apyres	rs/users re i substance	garding the Indicate	listed cub	C73868 AF	
2.04 CBI	For each activity that uses the learnesponding to each physical states for imported time you import or begin to permanufacturing, storage, disposal final state of the product.	ate of the rting and rocess the	listed subs processing a listed subs ort activits	stance durin activities a stance. Phy ies are dete	ng the activi are determined vsical states	ty dat
			Phys	sical State	Liquified	
	Activity	Solid	Slurry	Liquid	Gas	Ga
	Manufacture	1	2	3	4	٤
	Import	1	2	. 3	4	:
	Process	1	2	(3)	4	
	Store	1	2	$\widetilde{3}$	4	
	Dispose	(1)	$\widetilde{2}$	$\widetilde{3}$	4	
	Transport	1	2	3	4	

4.05 CBI	following activities, indicate for each applicable physical state the size and percentage distribution of the listed substance by activity. Do not include particles >10 microns in diameter. Measure the physical state and particle size importing and processing activities at the time you import or begin to process listed substance. Measure the physical state and particle sizes for manufactures of the state and particle sizes for manufactures of the state and particle sizes for manufactures.						and the le sizes fees the	
` <u> </u>	Physical State	NA	Manufacture	Import	Process	Store	Dispose	Transpor
	Dust	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Powder	<1 micron						
		1 to <5 microns						
		5 to <10 microns			<u> </u>			
	Fiber	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Aerosol	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
		•						

SECTION 5 ENVIRO	NMENTAL FATE
------------------	--------------

01 Ir. .a.	dicate the rate constants for the following transformation processes. Photolysis:	•
	Absorption spectrum coefficient (peak) ("U.K.") (1/M cm) at	
	Reaction quantum yield, 6	
	Direct photolysis rate constant, k, at ("U.K.") 1/hr	r
ь.		- 14(1
	For 10, (singlet oxygen), kox	1
	For RO ₂ (peroxy radical), k _{ox}	1
с.	Five-day biochemical oxygen demand, BOD, ("U, K.")	
	Biotransformation rate constant:	
	For bacterial transformation in water, k ("U.K.")	1
	Specify culture	
e.	Hydrolysis rate constants:	
	For base-promoted process, k _B	1
	For acid-promoted process, k, (U.K.)	1
	For neutral process, k _N ("U.K.")	1
f.	Chemical reduction rate (specify conditions) ("U.K")	
	•	
g.	Other (such as spontaneous degradation) ("U.K.")	

PART B	PARTITION	COEFFICIENTS
--------	-----------	--------------

Soil

5.02	a.	Specify	the	half-li	fe of	the	listed	subs	tance i	n the	follow	ing	media.	
		Media							<u>Hal</u>	f-lif	e (spec	ify	units)	
Groundwater						((" U.	K.")						
		Atmospher	e				-							-
		Surface w	ate	τ										

b. Identify the listed substance's known transformation products that have a halflife greater than 24 hours.

CAS No.	Name	Half-life (specify units)	Media
<u>(U.K.)</u>			in
			in
			in
			in

- 5.03 Specify the octanol-water partition coefficient, K_{ow} ... ("U.K.") at 2 Method of calculation or determination

- [] Mark (X) this box if you attach a continuation sheet.

		tration Fac	tor	e type of test used in deriving to Species				Test ¹		
<u>-</u> -										
	^l Use the f	following co	des to de	signate th	e type of	test:				
	F = Flowt S = Stati	hrough								
			· .							

[[]			
	Market	Quantity Sold or Transferred (kg/yr)	Total Sales Value (S/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
5.05 BI	Substitutes List all known comme for the listed substance and state feasible substitute is one which is in your current operation, and which	the cost of each substitut s economically and technolo	e. A commercially gically feasible to
	feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitut s economically and technolo	 A commercially gically feasible to
BI	feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut s economically and technolo	 A commercially gically feasible to
BI	feasible substitute is one which is in your current operation, and which performance in its end uses.	the cost of each substitut s economically and technolo	 e. A commercially gically feasible to ct with comparable
<u>BI</u>	feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut s economically and technolo	 e. A commercially gically feasible to ct with comparable
BI	feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut s economically and technolo	 e. A commercially gically feasible to ct with comparable
BI	feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut s economically and technolo	 e. A commercially gically feasible to ct with comparable
BI	feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut s economically and technolo	 e. A commercially gically feasible to ct with comparable
BI	feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut s economically and technolo	 e. A commercially gically feasible to ct with comparable
BI	feasible substitute is one which is in your current operation, and which performance in its end uses. Substitute	the cost of each substitut s economically and technolo	 e. A commercially gically feasible to ct with comparable

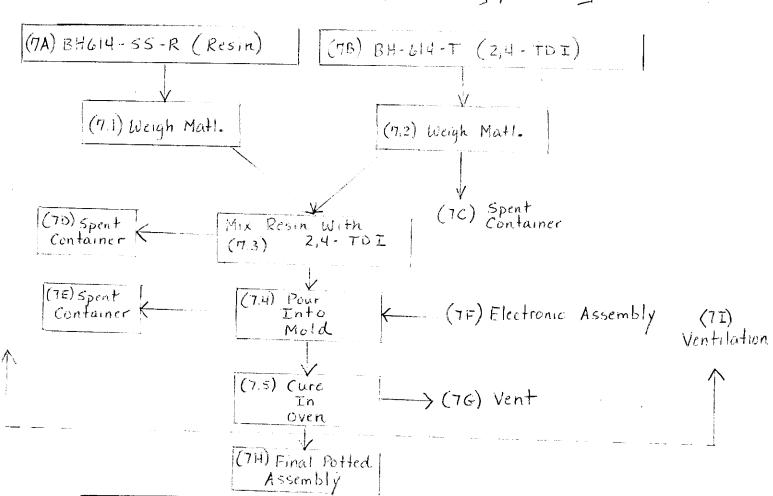
General Instructions:

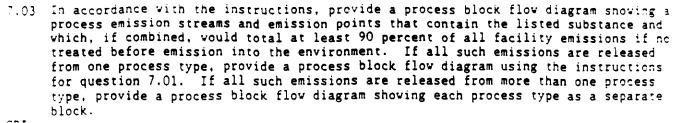
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

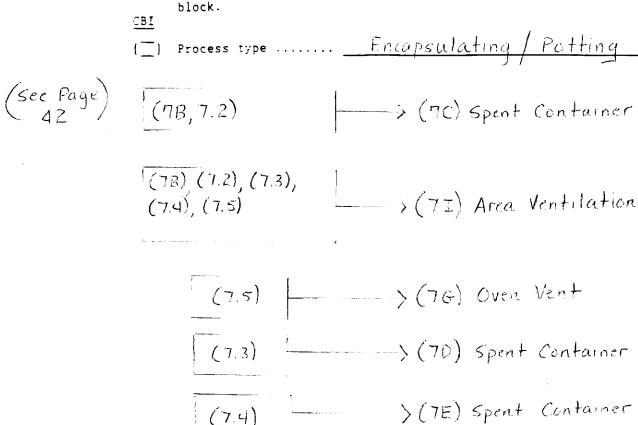
PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

- 7.01. In accordance with the instructions, provide a process block flow diagram showing major (greatest volume) process type involving the listed substance.

 CBI
- [| Process type Encapsulating / Potting







^[] Mark (X) this box if you attach a continuation sheet.

	Process type Unit Operation ID Number	Typical Equipment	psulating / Po	itting	
(Operation ID Number	Typical	./ /	J	
-	A 8	Type	Operating Temperature Range (°C)	Operating Pressure Range (mm_Hg)	Vessel Compositi
.	7.1	Paper Cup	Room	Room	Paper
_	7.2	Paper Cup	Room	Room	Paper
_	7.3	Paper Cup	Room	Room	Paper
_	74	mold	Rosm	Room	RTV, AI
_	7.5	Oven	110±50	Room	Steel
_					
_					
_					

Physical State Stream Viscous Lig. ≈ 32 Liquid ≈ 22.7
Viscous Lig. ≈ 32 Liquid ≈ 22.7
Liquid ~22.7
2
Residual Liquid = .227
Liquid ("U.K.")
Solid NA
) Solid NA
J) Vapor ("UK"
D) Solid (NA)
s) Vapor ("U.K.
u) Vapor D) Solid

.06 BI	If a proce this quest	ze each process stream ic ss block flow diagram is ion and complete it separ ns for further explanation	provided for mately for each	ore than one prod process type.	cess type, phoroc
_1	Process ty	pe Encaps	ulating/	Potting	
	а.	b.	c. 1	d.	ę.
	Process Stream ID Code	Known Compounds	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentration (% or ppm)
	-7A	BH614-55-R	100%	<u>None</u>	NA
	<u> 78</u>	BH614-T	1000/0	2,4-TDI	74%
				2,6 TOI	18%
	<u>7C</u>	BH-614-T	100%	2,4-TDI	74%
				2,6-TDI	18%
	70	Mixed Resin	100%	None	NA
	7E_	Solidified Resin	100%	Ammonia	("UK")
	7 =	· NA	<u>NA</u>	<u>NA</u>	NA
	76	Isocyanates	('U.K.')	NA	NA
		Ammonia	('UK.")	NA	NA
	<u>7H</u>	MA	<u>NA</u>	NA	NA
	<u> 71</u>	Isocyanates	("U.K.")	NA	NA

7.06 continued below

							•
1	Mark (Y)	this how	i €		continuation	abaaa	
tj	HETY (V)	this box	ıı you	attach a	continuation	Sneet.	

7 06	(continued)
/.U0	(continued)

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each componer Assign an additive package number to each additive package and list this number a column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations(% or ppm)
1		
NF		
2		
3		
4		
5		
se the following codes	to designate how the concentration	n vas determined:
= Analytical result = Engineering judgemen		
	to designate how the concentration	n vas measured:
= Volume = Weight		

SECTION 8	RESIDUAL TREATMENT	GENERATION,	CHARACTERIZATION,	TRANSPORTATION.	AND
	MANAGEMENT				

General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block fladiagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) have corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EPA Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

<u>_</u>]	Mark (X)	this i	рох	if you	attach a	continuation	sheet.	

PART	A RESIDUAL TREATMENT PROCESS DESCRIPTION
8.01 CBI	In accordance with the instructions, provide a residual treatment block flow diagra which describes the treatment process used for residuals identified in question 7.
[_]	Process type <u>Encapsulating Potting</u>
(7C), (7E),	(70) Spent Covered metal TSDF

aı _ pr	agram ocess	(s). If a r type, photo	residual trea	atment block f Jestion and co	in your residu low diagram is mplete it sepa r explanation	provided for	more than o
_] Pr	ocess	typ e	<u>Ence</u>	apsulating/	Patting		
	а.	b.	с.	d.	е.	f.	g.
	ream ID ode	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) 4,5.6	Other Expected Compounds	Estimated Concen- trations (% or ppm)
<u> </u>	1 <u>C</u>	T	OL	2,4-TOI	740/0	("U.K.")	("U.V.")
				2,6-TDI	<u> 18%</u>	("U K.")	("O.K!")
7	D	T	OL	2,4-TDI		("U.K.")	("D.K.")
				2,6-TDI	18%	("U.K.")	("U.K.")
7	<u>E</u>	NA		("U.K.")	N A	NA	N A
cont	inue	i below					

8.05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = Toxic H = Acutely hazardous Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[] Mark (X) this box if you attach a continuation sheet.

.

8.05 (cont	inued)
--------	------	--------

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each componen Assign an additive package number to each additive package and list this number i column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.
Refer to the glossary for the definition of additive package.)

Package Number	Components of Additive Package	Concentrations(% or ppm)
1		
NA		
2		
3		
4		
5		
Use the following codes t	o designate how the concentration	on was determined:
A = Analytical result		
E = Engineering judgement	/calculation	
OF condend to the		
.05 continued below		
Mark (X) this box if you a	ttach a continuation sheet.	

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

	(NP)		
<u>Code</u>		Method	Detection Li= (± ug/l)
1			
2			
3			
4			
_5	-		
6			

8.06	process	type, photo	esiqual trea copy this qu	atment block uestion and c	l in your residual t flow diagram is pro complete it separate der explanation and	vided for mo	re than o	
CBI					1 ~			
[]	Process type Encapsulating/Potting							
	a.	Ъ.	c.	d .	е.	f. Costs for	g.	
	Stream ID <u>Code</u>	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)	Management of Residual (%) On-Site Off-Site	Off-Site Management (per kg)	Changes Manageme Methods	
	70	<u>B67/B69</u>	<u>15T</u>	_,227_	100%	("U,K.")	NA	
	70	B67/869	15T	("U K.")	100%	("U,K.")	NA	
	r~1 t~		A T	Transis N				
	<u>7E</u>	<u> </u>	<u>15T</u>	("OK.")	<u>100%</u>	<u>("U.K.")</u>		
2	Use the	codes provid	ded in Exhil	bit 8-1 to de bit 8-2 to de	esignate the waste	descriptions		
_} M	lark (X)	this box if	you attach	a continuati	ion sheet.			

WASTE DESCRIPTION CODES

These waste description codes were developed specifically for this survey to supplement the descriptions is sec with the RCRA and other waste codes. (These waste description codes are not regulatory definitions.)

WASTE DESCRIPTION CODES FOR HAZARDOUS WASTE DESCRIBED BY A SINGLE RODA R. K. P. OR U WASTE CODE

401	Spent	SOIVENT	F001-F005	<086)
-----	-------	---------	-----------	-------

402. Other organic riquid (F001-F005, K086)

403 Still borom F001-F005, K0861 AC4 Other organic sludge (F001-F005, K086)

ACS. Nastewater or aqueous mixture.

A06. Contaminated soil or cleanup residue

AUT Other Flor K waste, exactly as described.

A08 Concentrated off-spec or discarded product

A09 Empty containers

A10 incinerator asn

A11 Solidified treatment residue

A12 Other treatment residue specify n Facility Notes

A13 Other untreated waste specify in Facility Notes 1

INORGANIC LIQUIDS-Waste that is primarily norganic and highly fluid leigil aquequs) with ow suspended inorganic solids and low organic

301 Adueous waste with ow solvents

302 Aqueous waste with low other toxic prospics

903 Spent acid with metals

904 Spent acid without metals

305 Acidic aqueous waste

906. Caustic solution with metals but no EVENIDES

907 Caustic solution with metals and cyanides

808 Caustic solution with cyanides out no metais

809 Spent caustic

810 Causic aqueous waste

811 Aqueous waste with reactive suifides

812 Aqueous waste with other reactives (e.g., AXDIGE/VES)

913. Other aqueous waste with high dissolved SOLIGS

Other adueous waste with row dissolved ic..ds

B15 Scrubber water

916 Leachate

917. Waste riquid mercury

918. Other inorganic liquid (specify in) Facility Notes 1

INORGANIC SLUDGES—Waste that is primarly inorganic, with moderate-to-high was content and low organic content; pumpable.

819 Lime sludge without metals

820 Lime sludge with metala/metal hydroxide sludge

821 Westerment regiment studge with time

B22 Other westewater treatment sludge

823 Untreased planing studge without cyanides

824 Unirected pletting studge with cyanides 825 Other studge with cyanides

826 Sludge with reactive suifide

Sludge with other reactive

828 Degreesing studge with metal scale or hings

829 Air pollution control device sludge (e.g., fly ash, wat scrubber sludge)

830 Sediment or lagoon dragout contaminated WITH OFGERICS

Sediment or lagoon dragout contaminated WITH INDITIONICS ONLY

Onling mud 8.32

* Exactly as described * means that the waste matches the description of the RCRA waste code

Asbestos siurry or siudge 833

834 Chloride or other brine sludge

835 Other inorganic sludge ispecity in Facility Notes)

INORGANIC SOLIDS—Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not DUMDADIO

836 Soil contaminated with organics

837 Soil contaminated with inorganics only 838 Ash, sieg, or other residue from inciner-MION Of WESTERS

839 Other "dry " ash, slag, or thermal readue

"Dry" lime or metal hydroxide solids 840 chemically "fixed"

B41 "Dry" lime or metal hydroxide solids not free

Metal scale filings, or scrap

843 Empty or crushed metal drums or con-ZIDOM

844 Batteries or battery parts, casings, cores **B45** Spent solid filters or adsorbents

846 Asbestos solids and depns

847 Metal-cyanide salts/chemicals

848 Reactive cyanide satts/chemicals **BAB** Reactive sulfide saits/chemicals

850 Other reactive saits/chemicals 851

Other metal salts/chemicals 852 Other waste inorganic chemicals 853

Lab packs of old chemicals only 854 LAD DECKS of debns only

855 Mixed lab pacies 864

Other inorganic solids (specify in Faculty Name :

INORGANIC GASES-Wasse that is primarily inorganic with a low organic content and is a 986 & atmosphene pressure.

857 Inorganic gases

ORGANIC LIQUIDS-Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content

858 Concentrated solvent-water solution 859 Halogenated (e.g., chlonnated) solvent

Nonnalogenated solvent

861 Halogenated/nonnalogenated scivent mixture

862 Oil-water emulsion or mixture

863 Waste on

Concentrated aqueous solution of other organics

Concentrated phenolics 865

884 Organic paint, ink. lacquer, or varnish 867

Adhesives or exposies

866 Paint thinner or petroleum distillates

869 Reactive or polymenzable organic liquid

Other organic tiquid (specify in Facility Notes 1

ORGANIC SLUDGES-Waste that is primarily organic, with low-to-moderate inorganic solids content and water content; pumpable

Still bottoms of halogenated leig chiennated) sovents or other organic liquids

872 Still bottoms of nonnalogenated solvents or other organic riquids

873 Oily sluage

874 Organic paint or link sludge

875 Peactive or polymerizable organics 878

Resins, tars, or tarry sludge 877 Biological treatment studge

Sewage or other untreated biological siudge

Other organic studge (specify in 879 Facility Notes

ORGANIC SOLIDS-Waste that is primarily organic and solid, with low-to-moderate IND/DB/NC CONTENT and water content: not **DUMP**

200 Halogeneised pesticide solid 241

Nonhalagenated pesticide solid 102 Solid regine or polymenzed organics

863 Spent carbon 884

Reactive organic solid 886

Empty fiber or plastic containers LAD DECKS of old chemicals only Lab packs of debns only

Mixed leb packs

Other halogeriated organic solid

Other nonhalogenated organic solid

ORGANIC GASES—Wasse that is primarily organic with low-to-moderate inorganic content and is a gas at elmospheric pressure.

801 Organic gases

EXHIBIT 8-2. (Refers to question 8.06(c))

MANAGEMENT METHODS

M1 :	Discharge to publicly owned		overy of solvents and liquid organic
	vastevater treatment works	for	reuse
M2 =	Discharge to surface vater under	1 S R	Fractionation
	NPDES Discharge to off-site, privately owned wastewater treatment works	2SR	Batch still distillation
::3 -:	Discharge to off-site, privately	3SR	Solvent extraction
	owned vastewater treatment works	4SR	Thin-film evaporation
M4 :	Scrubber: a) caustic; b) water;		Filtration
	c) other	65B	Phase separation
M5 =	= Vent to: a) atmosphere; b) flare;	7 S P	Dessication
	c) other (specify)	858	Other solvent recovery
M6 =	Other (specify)	USK	other solvent recovery
		Reco	every of metals
TKK	ATMENT AND RECYCLING	1MR	Activated carbon (for metals
Inci	ineration/thermal treatment	2 M D	recovery) Flactrodialysis (for morels
1 T	Liquid injection	4nK	Electrodialysis (for metals
2 T	Rotary or rocking kiln	วนอ	recovery)
3I	Potent bile with a liquid interest-	ンパド	Electrolytic metal recovery
7.1			Ion exchange (for metals recovery
/ +	unit	OMR	Reverse osmosis (for metals
41	Tvo stage		recovery)
21	Fixed hearth Multiple hearth	6MR	Solvent extraction (for metals
01	multiple hearth		recovery)
1/	Fluidized bed Infrared	7MR	Ultrafiltration (for metals
81	Intrared		recovery)
91	Fume/vapor	8MR	Other metals recovery
101	Pyrolytic destructor		•
111	Other incineration/thermal	Vast	evater Treatment
	treatment		r each wastewater treatment type
			listed below (1WT - 66WT) specify
	e as fuel		a) tank; or b) surface impoundmen
1RF	Cement kiln		(i.e., 63VTa)
	Aggregate kiln		(·
3RF	Asphalt kiln	Farra	lization
4RF	Other kiln		Equalization
5RF	Blast furnace	T # T	edagitation
6RF	Sulfur recovery furnace.	C	
70F	Coolting colting	Cyan	ide oxidation
/ RF	Smelting, melting, or refining	ZWT	Alkaline chlorination
000	furnace		Ozone
	Coke oven	4VT	Electrochemical
9KF	Other industrial furnace	SVT	Other cyanide oxidation
10RF	Industrial boiler		
11RF	Utility boiler	Gene	ral oxidation (including
12RF	Process heater	diei	nfection)
13RF	Other reuse as fuel unit		Chlorination
		71m	Ozonation
Fuel	Blending		UV radiation
	Fuel blending		Other general oxidation
		741	Acuer Reserve Axidation
	dification	Chem	ical precipitation1
15	Cement or cement/silicate processes		Lime
2 S	Poszolanic processes		Sodium hydroxide
35	Asphaltic processes		Soda ash
45	Thermoplastic techniques		Sulfide
55	Organic polymer techniques		
6 S	Technica (mann against techniques	LAWI	Other chemical precipitation
	Jacketing (macro-encapsulation)		
7 S	Other solidification		mium reduction
		1507	Sodium bisulfite

Chromium reduction 15VT Sodium bisulfite 16VT Sulfur dioxide

MANAGEMENT METHODS

17VT	Ferrous	sulfate
18 VT	Other ch	romium reduction

Complexed metals treatment (other than chemical precipitation by pH adjustment) 19VT Complexed metals treatment

Emulsion breaking 20WT Thermal 21WT Chemical

22WT Other emulsion breaking

Adsorption 23VT Carbon adsorption 24VT Ion exchange 25VT Resin adsorption 26VT Other adsorption

Stripping 27WT Air stripping 28WT Steam stripping 29WT Other stripping

Evaporation
30VT Thermal
31VT Solar
32VT Vapor recompression
33VT Other evaporation

Filtration
34VT Diatomaceous earth
35VT Sand
36VT Multimedia
37VT Other filtration

Sludge devatering 38VT Gravity thickening 39VT Vacuum filtration 40VT Pressure filtration (belt, plate and frame, or leaf)

41VT Centrifuge 42VT Other sludge devatering

Air flotation
43VT Dissolved air flotation
44VT Partial aeration
45VT Air dispersion
46VT Other air flotation

0il skimming 47VT Gravity separation 48VT Coalescing plate separation 49VT Other oil skimming

Other liquid phase separation 50WT Decanting 51WT Other liquid phase separation

Biological treatment
52WT Activated sludge
53WT Fixed film-trickling filter
54WT Fixed film-rotating contactor
55WT Lagoon or basin, aerated
56WT Lagoon, facultative
57WT Anaerobic
58WT Other biological treatment

Other wastewater treatment
59VT Vet air oxidation
60VT Neutralization
61VT Nitrification
62VT Denitrification
63VT Flocculation and/or coagulation
64VT Settling (clarification)
65VT Reverse osmosis
66VT Other wastewater treatment

OTHER VASTE TREATMENT

1TR Other treatment 2TR Other recovery for reuse

ACCUMULATION

1A Containers 2A Tanks

STORAGE

1ST Container (i.e., barrel, drum)
2ST Tank
3ST Waste pile
4ST Surface impoundment
5ST Other storage

DISPOSAL

1D Landfill 2D Land trea

2D Land treatment
3D Surface impoundment (to be closed
 as a landfill)

4D Underground injection well

Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH, THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60VT).

		Ch	Combustion Chamber Temperature (°C)		tion of erature	Residence Time In Combustion Chamber (seconds)	
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Seconda
	1						
	2						
	3						
	Indicate by circl Yes	····	of Solid Wast	onse.	been submit		of respons
[<u>]</u>]	Incinerator 1 2	NA	Air Pol Control	lution Device		Types Emission Avail	s Data
-	3		· · · · · · · · · · · · · · · · · · ·				
	Yes		f Solid Waste		• • • • • • • • • • • • • • • • • • • •		
. 1	Use the follows S = Scrubber (i E = Electrostat O = Other (spec	ing codes to include type	o designate the of scrubber	in parenthe		device:	

SECTION 9 WORKER EXPOSURE

Cenera	1 T	net	FILE	tion	٠.

Questions 9.03-9.25 apply only to those processes and workers involved in manufacturing a processing the listed substance. Do not include workers involved in residual waste treatment unless they are involved in this treatment process on a regular basis (i.e., exclude maintenance workers, construction workers, etc.).

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01	Mark (X) the appropriate column to indicate whether your company maintains records of the following data elements for hourly and salaried workers. Specify for each data
CBI	element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for furthe explanation and an example.)

•		intained for	Year in Which	Number of
Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Records Are Maintaine
Date of hire	<u>X</u>	<u> </u>	1949	Permanent
Age at hire	<u> X</u>	<u>X</u>	1949	Permanent
Work history of individual before employment at your facility	X	Χ	. 1949	Permanent
Sex	X	X	1949	Permanent
Race	<u>X</u> .	X	1949	Permanen +
Job titles	<u>, X</u>	<u>X</u>	1949	Permanent
Start date for each job title	_X_	X	1949	Permanent
End date for each job title	<u> </u>	<u> </u>	1949	Permanent
Work area industrial hygiene monitoring data	<u>X</u>	X	("V,K,")	Permanent
Personal employee monitoring data	X	X	("U.K.")	Permanent
Employee medical history	<u> </u>	<u> </u>	1949	Permanent
Employee smoking history	<u> </u>	<u> </u>	1980	Permanent
Accident history	<u> </u>	<u>X</u>	1949	Permanent
Retirement date			1949	Permanent
Termination date	<u> </u>	<u>X</u>	1949.	Permanent
Vital status of retirees	<u>X</u>		("V.K.")	N.A.
Cause of death data	<u>X</u>	X	1949	Permanent
•			41 .	

^[] Mark (X) this box if you attach a continuation sheet.

9.02 CBI	in which you engage.	instructions, complete	the following ta	ible for e	ach activity
[_]	a .	b.	с.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Vorkers	Total Worker-Hou
	Manufacture of the listed substance	Enclosed	NA		
	iisted Sanstance	Controlled Release	<u>NA</u>		
		0pen	NA		
	On-site use as reactant	Enclosed	NA		
		Controlled Release	NA		
		0pen	NA		
	On-site use as nonreactant	Enclosed	<u>NA</u>		
		Controlled Release	NA		
		0pen	NA		
	On-site preparation of products	Enclosed	NA		
		Controlled Release	26.3	5	("U.K.")
		0 pe n	NA		

encompasses workers listed substance.	ve job title for each labor category at your facility that who may potentially come in contact with or be exposed to
abor Category	Descriptive Job Title
A	Polling Operator
В	Assemble / Wire
. c	
D	
E	
F	
G	
Н	
I	
J	
	·

9.04 In accordance windicate associ <u>CBI</u>	ith the instructions, provide your process block flow diagram(s) and ated work areas.
[_] Process type	<u>Eneapsulating / Potting</u> Operator Contacts Entire Area
(7A) BH614-SS-R (Resin)	(76) BHG14-T (3,4-TDI)
(7.1) Weigh Matt	(7.2) Weign Matt.
(7D) Spent	Mix Rosin & Z,4-TDI V (70) Spent Container
(7E) Spent Container	(74) Pour (7F) Electronic Assy.
	(75) Cure (76) Vent Over (76) Vent
	(7H) Final Product
,	
[] Mark (X) this box	if you attach a continuation sheet.
	Q1

Process type	Encapsulating / Potting
Work Area ID	Description of Work Areas and Worker Activiti
1	Hooded Work Station (Mix & Pour) Vented Oven (Bake)
2	Vented Oven (Bake)
3	
4	
5	
6	
7	
8	
9	
10	

_1	Process type	e	Encapsul	ating	Potting		
	Work area .		• • • • • • • • • • • • • • • • • • • •	•••••	·· ··· <u> </u>	1	
	Labor Category	Number of Workers Exposed	Mode of Expos (e.g., di skin cont	rect	Physical State of Listed Substance	Average Length of Exposure Per Day	Number o Days per Year Exposed
	<u> </u>	5	Skin/Inhala	tion	OL	D, E	250
		-					•
							-
	GC = Gas (contemporary GU = Gas (contemporary Gus included SO = Solid	condensible at cature and pre- incondensible a cature and pre- les fumes, vap	ambient ssure) at ambient ssure; ors, etc.)	SY = AL = OL = IL =	Sludge or slead Aqueous lique Organic lique Immiscible 1 (specify phase 90% water, 10	urry id id iquid ses, e.g., 0% toluene)	bstance at
2	Use the foll	owing codes to	o designate av	erage l	ength of expo	sure per day:	
	exceedin C = Greater	es or less than 15 minute g 1 hour than one hour, g 2 hours		E =	Greater than a exceeding 4 ho Greater than 4 exceeding 8 ho Greater than 4	ours hours, but pours	

_'	Process type		Encapsulatin	9/1	offing		
	Work area		• • • • • • • • • • • • • • • • • • • •	• • • • •		2	
	Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direc skin contact	t	Physical State of Listed Substance	Average Length of Exposure Per Day	Number c Days per ïear Exposed
	<u>. A</u>	5	Skin/Inhala	tion	<u>OL</u>	B, C.	("U.K.")
							•
		40.45			72.Av 27.17 75.13		
	GC = Gas (or temper GU = Gas (ur temper includ SO = Solid	endensible a cature and promote and promote and promote and promote at the cature at the cat	essure) at ambient essure; pors, etc.)	SY = AL = OL = IL =	Sludge or sla Aqueous liqu Organic liqu Immiscible 1 (specify phase 90% water, 10	urry id id iquid ses, e.g., 0% toluene)	bstance at
	A = 15 minut		o designate avera			sure per day: 2 hours, but	not
	B = Greater exceedin	than 15 minus g 1 hour		E = G	xceeding 4 here	ours 4 hours, but	
		than one hour g 2 hours	, but not		xceeding 8 hereater than b		

CBI	Process type Encapsulating Potting Vork area 2					
	Work area		2			
	Labor Category	8-hour TVA Exposure Level (ppm, mg/m³, other-specify)				
	A	("U.K.")	("V.K")			
			1. (1. (1. (1. (1. (1. (1. (1. (1. (1. (
			· · · · · · · · · · · · · · · · · · ·			
		44.	S			
			•			
			2000 - 2000 2000 - 2000			
		•	And the second s			

07 <u>I</u>	For each labor category represented in question 9.06, indicate the 8-hour Time Weighted Average (TWA) exposure levels and the 15-minute peak exposure levels. Photocopy this question and complete it separately for each process type and wor area.						
_ }	Process type Encapsulating / Potting						
	Work area	and the second s	1				
	Labor Category	8-hour TVA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Lev (ppm, mg/m³, other-specify				
	A	("J.K.")	("UK")				
			·				
•							

8	If you monitor works	er exposur	e to the li	sted substa	nce, compl	lete the fo	llowing tabl
<u>I</u> - 1	(N)	<u>A</u>					
-	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Recor Maintained
	Personal breathing zone						
	General work area (air)						
	Wipe samples						
	Adhesive patches						
	Blood samples						
	Urine samples						
	Respiratory samples		-				
	Allergy tests						
	Other (specify)						
	Other (specify)						
	Other (specify)						
٠	Use the following contact A = Plant industrial B = Insurance carrie C = OSHA consultant D = Other (specify)	hygienis		takes the	monitorin	g samples:	

(<u> </u>	Sample Type	(NA)	Sampling and Analyt	ical Methodolo	o g y
	-				
0.10 BI	If you conduct perso specify the followin	nal and/or ambien g information for	t air monitoring fo each equipment type	r the listed s e used.	ubstance,
_1	Equipment Type ¹	Detection Limit	Manufacturer	Averaging Time (hr)	Model Numbe
÷					
	Use the following co		personal air monito	oring equipmen	t types:
	B = Detector tube C = Charcoal filtrat D = Other (specify)	:ion tube with pum	пр		•
	Use the following co E = Stationary monit F = Stationary monit G = Stationary monit	ors located withi	n work area n facility	ring equipment	types:
	<pre>H = Mobile monitorin I = Other (specify)</pre>	g equipment (spec	ify)		
*	Use the following co A = ppm B = Fibers/cubic cen C = Micrograms/cubic	timeter (f/cc)	detection limit uni	its:	

Ī		MA	Frequency	
_]	Test Description	(V)	(weekly, monthly, yearly	, etc.
				
-		·		
•				
			,	
			•	
,	•			

12	Describe the engineering co to the listed substance. P process type and work area.	be the engineering controls that you use to reduce or eliminate worker exposuse listed substance. Photocopy this question and complete it separately for east type and work area.						
]	Process type	Encap	sulating / Por	Hing				
	Work area	••••••	•••••	1				
	Engineering Controls	Used (Y/N)	Year <u>Installed</u>	Upgraded (Y/N)	ïear Upgrade			
	Ventilation:			-				
	Local exhaust		<u>("U.K.")</u>	$\mathcal{N}_{\mathcal{N}}$	NA			
	General dilution		("U.K.")		NA			
	Other (specify)							
	Vessel emission controls			<i>N</i>	-			
	Mechanical loading or packaging equipment			N				
	Other (specify)	-						

	Mark	(X)	this	box	i f	you	attach	ą	continuation	sheet.
--	------	-----	------	-----	-----	-----	--------	---	--------------	--------

Describe the engineering controls that you use to reduce or eliminate worker expos to the listed substance. Photocopy this question and complete it separately for e process type and work area.						
Process type Encapsulating / Potting						
Work area	•••••••	2				
Engineering Controls	Used (Y/N)	Year _Installed	Upgraded (Y/N)	ïear <u>Upgrad</u>		
Ventilation:						
Local exhaust		<u>("U.K.")</u>	\mathcal{N}	NA		
General dilution	<u> </u>	("U.K.")	N	NA		
Other (specify)						
Vessel emission controls	N	N				
Mechanical loading or packaging equipment	<u>N</u>					
Other (specify)						

^[] Mark (X) this box if you attach a continuation sheet.

3	Describe all equipment or process modifications you have ma prior to the reporting year that have resulted in a reducti the listed substance. For each equipment or process modifi the percentage reduction in exposure that resulted. Photoc complete it separately for each process type and work area.	on of worker exposure cation described, state					
ı	Process type Encapsulating / Potting						
_1	Work area	2					
		Reduction in Worker					
	Equipment or Process Modification	Exposure Per Year (%)					
	NA NA						
		•					
		•					
	•						

Process type Encapsulating / Potting					
Work area			1		
Equipment or P	rocess Modification		Reduction Exposure Per	in Vorker Year (%	
	IA				
				. ,	
		4			
		`\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
			•		
•					
				,	
		1			
		44			

9.14 CBI	THE EDGH WOLK BLEE	sonal protective and safety e a in order to reduce or elimi ocopy this question and compl	Data thair au	1 • .
	Process type	Encapsulation	ng / Potting	
	Work area			1
			Wear or	
		Equipment Types	Use (Y/N)	
		Respirators		
		Safety goggles/glasses	<u></u> y	
		Face shields	\sim	
		Coveralls	$\overline{\underline{}}$	
		Bib aprons	$\frac{1}{N}$	
		Chemical-resistant gloves	<u> </u>	
		Other (specify)		

9.14 CBI	Describe the per in each work are substance. Phot and work area.	sonal protective and safety equ a in order to reduce or elimina ocopy this question and complet	ipment that your work te their exposure to e it separately for e	ers wear or use the listed ach process typ
[_]	Process type	<u>Encapsulating</u>	/ Potting	
	Work area		······	2
		Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Vear or Use (Y/N) // // // // // // // // // // // // /	

[] Mark (X) this box if you attach a continuation sheet.

9.15	respirato tested, a	s use respirators when ype, the work areas whe rs used, the average us nd the type and frequen it separately for each	re the respirat age, whether or CV of the fit t	ors are us	ed, the type	of
CBI			(IVA		
[_]	Process ty	ype	`			
	Work Area	Respirator Type	Average Usage ¹	Fit Tested (Y/N)	Type of Fit Test	Frequency of Fit Tests (per year)
	A = Daily B = Weekl C = Month D = Once	y ly	nate average u	sage:		
	² Use the formula QL = Qual QT = Quan		nate the type o	of fit tes	t i	
,				•		,
[_] н	fark (X) th	is box if you attach a	continuation s	heet.		

Describe all of the work eliminate worker exposure authorized workers, mark monitoring practices, proquestion and complete it	e to the listed s areas with warni ovide worker trai	ubstance (e.g ng signs, ins ning programs	., restrict e ure worker de	ntrance only to tection and
Process type	Encapsula	ting / Pot	ting	
Work area		J 1	•••	1
1) Employee Follo	ome the Alexan	Parandus		
2 Local Ventilat		roceaure		
20000	,			
Indicate (X) how often you leaks or spills of the lisseparately for each process	sted substance. ss type and work	Photocopy thi	is question ar	lean up routing nd complete it
separately for each proces	sted substance. ss type and work Encapsulatin	Photocopy thi	is question ar	lean up routing
separately for each proces	sted substance. ss type and work Encapsulatin	Photocopy thi	is question ar	More Than 4
Process type	sted substance. ss type and work Encapsulatin Less Than	Photocopy this area. 9 Potting 1-2 Times	1 3-4 Times	More Than 4
Process type Work area Housekeeping Tasks	sted substance. ss type and work Encapsulatin Less Than	Photocopy this area. 9 Potting 1-2 Times	1 3-4 Times	More Than 4
Process type Work area Housekeeping Tasks Sweeping	sted substance. ss type and work Encapsulatin Less Than	Photocopy this area. 9 Potting 1-2 Times	1 3-4 Times	More Than 4
Process type Work area Housekeeping Tasks Sweeping Vacuuming	Less Than Once Per Day	Photocopy this area. 9 Potting 1-2 Times	1 3-4 Times	More Than 4
Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than Once Per Day	Photocopy this area. 9 Potting 1-2 Times	1 3-4 Times	More Than 4
Housekeeping Tasks Sweeping Vacuuming Water flushing of floors Other (specify)	Less Than Once Per Day	Photocopy this area. 9 Potting 1-2 Times	1 3-4 Times	More Than 4
Housekeeping Tasks Sweeping Vacuuming Water flushing of floors Other (specify)	Less Than Once Per Day	Photocopy this area. 9 Potting 1-2 Times	1 3-4 Times	More Than 4
Housekeeping Tasks Sweeping Vacuuming Water flushing of floors Other (specify)	Less Than Once Per Day	Photocopy this area. 9 Potting 1-2 Times	1 3-4 Times	More Than 4

9.19 CBI	Describe all of the work eliminate worker exposure authorized workers, mark monitoring practices, proquestion and complete it	e to the listed s areas with warni wide worker trai	ubstance (e.g. ng signs, insu ning programs.	, restrict en re worker de etc.). Pho	ntrance only to tection and tocopy this
_l	Process type	Encapsula	ting / Poti	ting	
	Work area		<i>J</i> /		2
	O Employee Follo	ius Written	Procedure		
	@ Local Ventilati		, , , , , ,		
. 20	Indicate (X) how often you leaks or spills of the lis separately for each process Process type	sted substance. ss type and work	Photocopy this area.	s question ar	lean up routin nd complete it
. 20	Process type Work area	sted substance. ss type and work Less Than	Photocopy this area.	s question ar	More Than
	separately for each proces Process type	sted substance. ss type and work	Photocopy this area.	s question ar	More Than 4
	Process type Work area	sted substance. ss type and work Less Than	Photocopy this area.	s question ar	More Than 4
	Process type Work area Housekeeping Tasks Sveeping	Less Than Once Per Day	Photocopy this area.	s question ar	More Than 4
	Process type Work area Housekeeping Tasks Sveeping Vacuuming	Less Than Once Per Day	Photocopy this area.	s question ar	More Than 4
	Process type Work area Housekeeping Tasks Sweeping Vacuuming Water flushing of floors	Less Than Once Per Day	Photocopy this area.	s question ar	More Than 4
	Process type Work area Housekeeping Tasks Sveeping Vacuuming Vacuuming Vater flushing of floors Other (specify)	Less Than Once Per Day	Photocopy this area.	s question ar	More Than 4
	Process type Work area Housekeeping Tasks Sveeping Vacuuming Vacuuming Vater flushing of floors Other (specify)	Less Than Once Per Day	Photocopy this area.	s question ar	Hore Than 4 Times Per Da
	Process type Work area Housekeeping Tasks Sveeping Vacuuming Vacuuming Vater flushing of floors Other (specify)	Less Than Once Per Day	Photocopy this area.	3-4 Times Per Day	More Than 4

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
***************************************	Routine exposure
	Yes
	No
	Emergency exposure
	Yes
	No
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes)
	No
	If yes, where are copies of the plan maintained? <u>MSDS In Foreman's Office</u>
	Has this plan been coordinated with state or local government response organization Circle the appropriate response.
	Yes
	No
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
**************************************	Plant safety specialist
	Insurance carrier
	OSHA consultant
1	Other (specify)
<u></u>	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the relea is federally permitted as defined in 42 U.S.C. 9601. or is specifically excluded under to definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that a equal to or greater than the RQ. The facility may have answered these questions or simil questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period a not single releases, i.e., the release of a chemical substance equal to or greater than a RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART	A GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area
	(Residential area)
	Agricultural area
	Rural area
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway
	Other (specify)

10.02	Specify the exact location of you is located) in terms of latitude (UTM) coordinates.	er facility (from cent and longitude or Univ	ral point wher versal Transver	e process unit se Mercader
	Latitude	·····	42 . 0	16.45
	Longitude		75 . 5	<u>58 - 20</u>
	UTM coordinates Zone	, Northi	ng, Ea	asting
10.03	If you monitor meteorological con the following information.	ditions in the vicini	ty of your faci	ility, provide
	Average annual precipitation	• • • • • • • • • • • • • • • • • • • •		inches/ye
	Predominant wind direction			Inches/ye
10.04	Indicate the depth to groundwater	helow your facilism		
	Depth to groundwater			
	The second section of the section of th	_		meters
0.05 BI 	For each on-site activity listed, listed substance to the environment Y, N, and NA.)	Envir	L routine releastructions for	a definition
	On-Site Activity	Air	<u>Vater</u>	Land
	Manufacturing	<i>NA</i>	NA	NA
	Importing	NA	NA	NA
	Processing	<u> </u>	NA	/\
	Otherwise used	<u>NA</u>	NA	NA
	Product or residual storage	NA	NA	NA
	Disposal	NA	NA	NA
•	Transport	NA	NA	NA
•				
_] Ma	ark (X) this box if you attach a co	ontinuation sheet.		

Process	s type	Encap.	sulating / Po	Hing	
Stre	eam ID Codo	<u>(</u>	Control Technology		Percent Efficie
	70	-	None		NA
···	70		None		
	7E		None		
	76		None		
	77 I		None		V
	·				
			1		

[] Mark (X) this box if you attach a continuation sheet.

<u>[</u>	Point Source		Altoman	($^{\prime\prime}$ U.K. $^{\prime\prime}$)		Maximum	Maximum Enission	Maximum Emission
- •	ID Code	Physical State ¹	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration (min/day)	Average Emission Factor	Emission Rate (kg/min)	Rate Frequency (events/yr)	Rate Duration (min/even
									
		-							
		· -							
	Use the	following; ; V = Vapor	codes to desi r; P = Particu	ignate physical ulate; A = Aero	l state at the osol; 0 = Othe	e point of re er (specify)	lease:		
	² Frequen	cy of emiss	sion at amy le	evel of emissic	on				
	3 Duratio	n of emissi	ion at arry lev	el of emission	1				

114

		Stack			(" U.	K.")	
Point Source ID Code	Stack meight(m)		Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building Vidth(m)	
	<u> </u>			(1117 300)	neight(m)	widen(m)	
							
							_
							_
	-						_
	-						_
							_
							_
							_
							_
							_
			·				
¹ Height	of attached	or adjacent	building				
² Width o	f attached o	or adjacent b	ouilding				
³ Use the	following o	odes to desi	gnate vent	:ype:			
H = Hor							
V = Ver	tical						

:BI		in particulate form, indicate the particle s ID Code identified in question 10.09. te it separately for each emission point sour
_1	Point source ID code	NA)
	Size Range (microns)	Mass Fraction (% ± % precision
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%
•		

P	ART	\mathcal{C}	FI	CI	TIVE	FMT	SSI	ONS

10.13	types listed which are expo	sed to the	listed su	bstance a	nd which :	are in se	rvice
CBI	according to the specified the component. Do this for residual treatment block fl not exposed to the listed s process, give an overall pe exposed to the listed subst for each process type.	weight perceach proces ow diagram(ubstance, rcentage of	ent of th ss type i s). Do n If this i time per	e listed dentified ot includes a batch vear tha	substance in your e equipmen or inters t the pro-	passing process but types mittently cess type	through lock or that are operater
[_]	Process type						
	Percentage of time per year type	that the l	isted sub	stance is	exposed	to this p	rocess
			of Compo	nents in t	Service by	y Weight cess Stre	Percent am
	Equipment Type	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99
	Pump seals ¹		3 10%	11-23/4	20-73%	70-77%	than 95
	Packed						
	Mechanical						
	Double mechanical ²						
	Compressor seals ¹			4			
	Flanges						
	Valves (MA)						
	Liquid					*	
	Pressure relief devices (Gas or vapor only)						
	Sample connections						
	Gas						
	Liquid						
	Open-ended lines ⁵ (e.g., purge, vent)						
	Gas						
	Liquid						
	¹ List the number of pump and compressors	compressor	seals,	ather tha	an the num	mber of p	umps or
10.13	continued on next page						
[<u>]</u>] M	lark (X) this box if you atta	ch a contin	uation sh	neet.			

10.13	(continued)
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicated with a "B" and/or an "S", respectively
	Conditions existing in the valve during normal operation
	Report all pressure relief devices in service, including those equipped with control devices
	⁵ Lines closed during normal operation that would be used during maintenance operations
10.14 <u>CBI</u> [_]	Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c. a. b. C. d. Number of Percent Chemical Estimated
	Pressure Relief Devices in Vessel Control Device Control Efficiency
	Refer to the table in question 10.13 and record the percent range given under the neading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)
	The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions
] Ma	rk (X) this box if you attach a continuation sheet.

pe.	y this question a	nd complete	it separate	ection and reach	m is in epair process
			(NA)		
ocess type		• • • • • • • • • • • • • • • • • • • •			
ipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device	of Leak Detection	Initiated (days after	Repair: Complete (days af initiate
no seals		-			
•					
-			*** • • • • • • • • • • • • • • • • • •		
-					
-					
inges					
.ves					
as				·	
iquid.					
ssure relief evices (gas r vapor only)					
ple connections					
as					
iquid					
n-ended lines					
as					
iquid —					
·					
	pripment Type proposed section and section and section and section are relief evices (gas r vapor only) ple connections as iquid section and section are relief evices (gas r vapor only) ple connections as iquid section and section are relief evices as iquid section are relief evices (gas r vapor only) ple connection are relief evices (gas r vapor only) ple connection are relief evices (gas r vapor only) ple connection are relief evices (gas r vapor only) ple connection are relief evices (gas r vapor only) ple connection are relief evices (gas r vapor only) ple connection are relief evices (gas r vapor only) ple connection are relief evices (gas r vapor only) ple connection are relief evices (gas r vapor only)	Leak Potection Concentration (ppm or mg/m³) Measured at Inches From Source The seals Packed Dechanical Double mechanical Double mechanica	Concentration (ppm or mg/m³) Measured at Inches Detection Device In p seals Packed Rechanical Double mechanical Inches Device In pressor seals Inges Inges Ing	Leak Potaction Concentration (ppm or mg/m³) Measured at Inches Inches Percention Inches Inche	Leak Dottection Concentration (ppm or mg/m') Measured at Inches Inches Per From Source Detection Detecti

Use the following codes to designate vessel type: F = Pixed roof CIF = Contact Internal floating roof NCIF = Noncontact internal floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground VM1 = Vapor mounted resilient filled seal, printing the vapor mounted secondary VM2 = Rim-mounted resilient filled seal, printing the vapor mounted secondary VM2 = Rim-mounted secondary VM3 = Veather shield Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis	[_]	Vessel Type	Floating Roof Seals	Composition of Stored Materials	Throughput (liters per year)	Vessel Filling Rate (gpm)	Filling	Vessel Inner Diameter (m)	Vessel Height (m)	. Volume	Vessel Emission Controls	Design Flow Rate ⁵	Vent Diameter (cm)	Control Efficiency (%)
F = Pixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NS1 = Mechanical shoe, primary NS2R = Rim-mounted secondary NS2R = Rim-mounted, secondary IM1 = Liquid-mounted resilient filled seal primary IM2 = Rim-mounted shield U = Vapor mounted resilient filled seal, primary NS2R = Rim-mounted secondary VM2 = Rim-mounted secondary VM2 = Rim-mounted secondary VM3 = Veather shield Indicate weight percent of the listed substance. Include the total volatile organic content in payments.							_(1	(4)						-
F = Pixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NS1 = Mechanical shoe, primary MS2 = Shoe-mounted secondary MS2R = Rim-mounted, secondary IM1 = Liquid-mounted resilient filled seal primary IM2 = Rim-mounted shield IM3 = Mechanical shoe, primary MS2R = Rim-mounted secondary IM3 = Liquid-mounted resilient filled seal primary IM4 = Vapor mounted resilient filled seal, primary VM2 = Rim-mounted secondary VM3 = Weather shield Indicate weight percent of the listed substance. Include the total volatile organic content in payments.										•				
F = Pixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NS1 = Mechanical shoe, primary MS2 = Shoe-mounted secondary MS2R = Rim-mounted, secondary IM1 = Liquid-mounted resilient filled seal primary IM2 = Rim-mounted shield IM3 = Mechanical shoe, primary MS2R = Rim-mounted, secondary IM1 = Liquid-mounted resilient filled seal primary IM2 = Rim-mounted resilient filled seal, primary MM2 = Rim-mounted secondary VM2 = Rim-mounted secondary VM3 = Weather shield														
F = Pixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NSI = Mechanical shoe, primary MS2 = Shoe-mounted secondary MS2R = Rim-mounted, secondary IMI = Liquid-mounted resilient filled seal primary IMI = Liquid-mounted shield IMI = Vapor mounted resilient filled seal, primary NMI = Vapor mounted resilient filled seal, primary NMI = Vapor mounted secondary NMI = Veather shield Indicate weight percent of the listed substance. Include the total volatile organic content in payments.									_					
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F = Pixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground NS1 = Mechanical shoe, primary NS2 = Shoe-mounted secondary NS2R = Rim-mounted, secondary IM1 = Liquid-mounted resilient filled seal primary IM2 = Rim-mounted shield VM1 = Vapor mounted resilient filled seal, primary NS2 = Shoe-mounted secondary IM2 = Rim-mounted shield VM2 = Rim-mounted secondary VM2 = Rim-mounted secondary VM3 = Weather shield												 -		
Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis 4 Other than floating roofs		F = CIF = NCIF = EFR = P = U = U	Pixed roo Contact i Noncontac External Pressure Horizonta Undergrou	of internal floa it internal i floating roo vessel (indi l nd	nting roof Floating roof of cate pressure	e rating))	MS1 MS2 MS2R LM1 LM2 LMV VM1 VM2 VM2	= Mech = Shoe = Rim-I = Liqui = Rim-I = Veath = Vapor = Rim-I	anical: -mounted mounted mounted her shie r mounted	shoe, prima d secondary secondary ted resilia shield eld resilien secondary	ary ' 'ent fill 't fille	ed seal∂ d seal, p	primary
		Vuinz t	HERE LIUGICA	mR roors				the total	volatil	le organ	ic content		enthesis	
⁵ Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) ⁶ Use the following codes to designate basis for estimate of control efficiency:	•	Gas/vap	or flow ra	ate the emiss	sion control	device w	as designa	d to hand	le (spe	cify fl	ow rate un:	its)		

10.23	was stop	the date and ped. If there releases.	time when the were more tha	release occurre an six releases,	d and when the rele attach a continuat	ase ceased or ion sheet and
	Release		Date tarted	Time (am/pm)	Date Stopped	Time _(am/pm)
	1					
	2			-		
VA)	3			-		
	4					
	5	· 		-		
	6			***************************************		
10.24	Specify t	he weather con	ditions at th	e time of each	release.	
	Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitatio
	1	<u> </u>	<u>Jirection</u>			(Y/N)
	2				/	
	3					
	4					
	5					
	6					
						
and the second s						

APPENDIX	I:	List	οf	Continuation	Sheets
			~ ~	CONTINUALION	21166.4

Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

Question Number (1)	Continuation Sheet Page Number(2)
(NA)	
	
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> Government processing centers 73790 pp AHn: CAIR Reporting Office